

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in this application. Please amend claims 1-3 as follows:

--1. (Currently Amended) A controller for a photographing apparatus having a photographing portion with driving means that allows the photographing direction of photographing means to be varied, comprising:

spherical surface in which the photographing means is disposed for photographing pictures;

displaying means for displaying a panorama picture generated ~~with a picture photographed by the photographing means by mapping a plurality of pictures on to a virtual spherical surface representing said spherical surface; and~~

controlling means for referencing the panorama picture and varying the photographing direction of the photographing means.--

--2. (Currently Amended) A controller for a photographing apparatus having a photographing portion with driving means that allows the photographing direction of photographing means to be varied, the controller comprising:

spherical surface in which the photographing means is disposed for photography pictures;

an operation area [[in which]] ~~displaying~~ a panorama picture generated ~~with a picture photographed by the photographing means is displayed by mapping a plurality of pictures on to a virtual spherical surface representing said spherical surface; and~~

picture selecting means for allowing the user to designate a desired point in said operation area, selecting an object photographed by the photographing means corresponding to the designated point, and moving the selected object to desired positional coordinates of the driving means.--

--3. (Currently Amended) A controller for a photographing apparatus having a photographing portion with driving means that allows the photographing direction of photographing means to be varied, the controller comprising:

spherical surface in which the photographing means is disposed for photographing pictures;

an operation area [[in which]] displays a panorama picture generated with-a picture photographed by the photographing means is displayed by mapping a plurality of pictures on to a virtual spherical surface representing said spherical surface; and

picture selecting means for allowing the user to designate a desired area in said operation area, selecting an object photographed by the photographing means corresponding to the designated area, and moving an object at the position corresponding to a desired point generated with the desired area to desired positional coordinates of the driving means.--

Claims 4-19 (Canceled)